

# Megersa Muleta

## Software Engineer

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### PROFILE

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Dynamic Software Engineer with a proven track record at Tech 4th ET, specializing in API development and backend services. Expert in MERN stack, Java and Spring Boot, I excel in delivering innovative solutions while collaborating effectively with cross-functional teams. Passionate about enhancing user experiences and driving digital transformation in complex systems.

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### EDUCATION

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**Microlink Information Technology College**

09/2019 – 08/2023

*BSC. in Computer Engineering*

Addis Ababa

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### SKILLS

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#### Languages

- JavaScript / TypeScript
- Python
- Java
- c++

#### Backend Frameworks

- Express.js
- Spring boot
- node js

#### Frontend Frameworks

- React
- Angular
- nextjs

#### Database

- MongoDB
- PostgreSQL
- MySQL

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### PROFESSIONAL EXPERIENCE

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**Tech 4th ET**

07/2025 – Present

*Software Engineer*

Addis Ababa

- Working on a large-scale Driving License & Permit System for the Ethiopian Transport Authority, enabling learners and license holders to validate their identity, attend classes, and submit exam results digitally under a unified national ID. Managed backend services for attendance tracking via biometrics, exam reporting, and payment processing (EthSwitch). Built secure APIs with Spring Boot, Spring Security, JPA, Keycloak IAM, and MySQL, implemented scheduled tasks and cron jobs, and coordinated with multiple stakeholders to ensure reliable, enterprise-grade operations.
- Collaborated with cross-functional teams to troubleshoot and resolve technical issues efficiently.

**Benol LLC***Software Engineer*

01/2025 – 07/2025

Addis Ababa

- Developed and tested software applications to meet user requirements and improve functionality.
- Collaborated with cross-functional teams to gather project specifications and enhance design processes. •Participated in code reviews to ensure quality and maintain industry standards in development practices.
- Developed a Gym SaaS platform handling end-to-end gym operations, including branch setup, gym equipment, lockers, operational hours, schedules, currency, employee management, POS, memberships, subscriptions, and QR-code-based gate control. •Implemented notifications and email reports for expired memberships, minimum stock alerts, and operational monitoring. Built with Next.js frontend, Node.js/TypeScript backend, and MongoDB, fully deployed for live usage.

**Hance Tech***Software Engineer | Backend Developer*

03/2024 – 12/2024

- Developed software solutions by collaborating with cross-functional teams to address project requirements.
- **Hospitality Platform:** Built backend for a platform offering dating experiences, meals, rooms, and trips. Developed APIs with Node.js, TypeScript, MySQL, implemented Redis caching, integrated TeleBirr payments, and deployed on VPS server to enable seamless bookings and transactions.
- **Dental SaaS:** Developed backend for a cloud-based dental management system, handling appointments, patient dashboards, payments, and staff management. Supported React.js frontend integration, deployed services on VPS, and helped clinics go fully digital.

**Afro Brave***Backend Developer*

05/2023 – 08/2023

Ontario (Remote)

- Built and maintained the backend of a platform helping African students secure admissions to Canadian colleges, waiving application fees and language tests.
- Developed APIs, integrated payment and email gateways.
- Used Node.js, MongoDB, AWS, and Redis to ensure a scalable, reliable system for hundreds of users
- Documented development processes and technical specifications to facilitate knowledge sharing among team members.

**Awash bank***Software Engineer Internship*

10/2022 – 05/2023

Addis Ababa (Hybrid)

- Built a real-time digital system for cash supply and collection across branches, treasury, and head office, replacing manual letters and phone calls.
- Implemented automatic notifications, digital signatures, and dashboards to track cash shortages/overflows, saving time, reducing paperwork, and improving operational efficiency.
- Used Angular, Spring Boot, MySQL, and deployed on a VPS.

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## PROJECTS

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### National ID Billing System

11/2025 – 12/2025

*Bill Fayda*

Worked as a Full-Stack Developer using Spring Boot and Next.js on Bill Fayda, a core subsystem of the Ethiopian National ID (Fayda) initiative. The system manages billing for agents based on contract agreements and the number of operations they handle. I contributed to building secure and scalable backend services for tariff setup, contract management, agent centers, machine inventory, and automated bill generation. On the frontend, I developed responsive interfaces that streamline workflows for agents and administrators. I implemented logic for counting operations, calculating bills, and generating agent checkouts, while ensuring proper authentication, role management, and audit tracking.

### UIMS-Amhara

08/2025 – 10/2025

*Unemployment Registration system for Amhara regional Government*

Worked as a Frontend Developer using React to build a national platform for registering unemployed citizens using their National ID and guiding them toward small and micro-enterprise (SME) opportunities. The system enables users to register individually or in groups, manages their eligibility, and supports them through the process of accessing financial assistance to start businesses. I developed efficient user interfaces that streamline registration, verification, group formation, and progress tracking. The platform also helps government agencies monitor user activities, provide targeted support, and ensure proper follow-up as individuals move from unemployment to business creation.

### Beno Gym SAAS

*A Gym management system SaaS product*

Developed a Beno GYMs, Gym SaaS platform handling end-to-end gym operations, including branch setup, gym equipment, lockers, operational hours, schedules, currency, employee management, POS, memberships, subscriptions, and QR-code-based gate control. Implemented notifications and email reports for expired memberships, minimum stock alerts, and operational monitoring. Built with Next.js frontend, Node.js/TypeScript backend, and MongoDB, fully deployed for live usage.

<https://benogyms.com/>

### Winly AI

*Winly AI — AI Interview Preparation Platform*

Developed an AI-powered web platform that helps job seekers and visa applicants prepare for interviews through personalized, real-time AI-generated questions, feedback, and voice interaction. Designed the backend architecture, integrated OpenAI APIs and Vapi voice agents for intelligent question generation and conversational support, and implemented secure user management and session handling for scalable, reliable system performance.

<https://winly-ai.vercel.app>

### **Harme koo (my Mother)**


*Authentic cultural foods and hospitality provider platform for tourists.*

Built a web and mobile platform that connects customers with local mothers in Oromia who prepare authentic homemade meals. The system enables ordering, delivery, and international shipping of cultural foods while empowering mothers to earn income and promote local tourism. I designed the system architecture, developed the backend APIs, implemented authentication, order management, and payment integrations, and ensured scalability and security across all services.

<https://harmeekoo.com>

### **Dribula.et**

*Dribula.et (Ethio Telecom VAS)*

Developed Dribula.et , a soccer-based interactive VAS game platform for Ethio Telecom, where users participate by answering category-based questions to win lottery numbers and rewards. Integrated SMPP messaging for user interaction via SMS and web-based subscription flows for digital engagement. Designed and implemented the backend architecture, including question management, lottery generation logic, and user session handling, ensuring high reliability and scalability for telecom-grade traffic.

### **Dental SaaS Project**

**Dental SaaS:** Developed backend for a cloud-based dental management system, handling appointments, patient dashboards, payments, and staff management. Supported React.js frontend integration, deployed services on VPS, and helped clinics go fully digital.

### **Ai based short video creator**

ai based saas project using next js, tailwindcss, shadcn Ui.

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## **REFERENCES**

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**Elias Roro**, *Sr. Software Engineer*, TD Bank  
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**Bikila Jaleta**, *Security Engineer*, Awash Bank  
+251913775060

**Tesfaye Benti**, *Sr Electronics Engineer*, Adama science and technology university  
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## **AWARDS**

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### **Hackathon Project – Harme Platform (Harmeekoo)**

06/2025

*Visit Oromia*

Developed Harme Platform (Harmeekoo) during a national hackathon – a digital platform connecting local mothers in Oromia with customers seeking authentic homemade meals. Served as Backend Developer & System Architect, designing the backend, APIs, and system architecture to enable food listings, ordering, and payment integration.